**Vidyanand Kumar**

**C Language Assignment 11**

1).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,i,s=0;

printf("Enter value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

{

s=s+i;

}

printf("Sum=%d",s);

getch();

}

2).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,i,s=0;

printf("Enter value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

{

s=s+2\*i;

}

printf("Sum=%d",s);

getch();

}

3).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,i,s=0;

printf("Enter value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

{

s=s+2\*i-1;

}

printf("Sum=%d",s);

getch();

}

4).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,i,s=0;

printf("Enter value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

{

s=s+i\*i;

}

printf("Sum=%d",s);

getch();

}

5).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,i,s=0;

printf("Enter value of N:");

scanf("%d",&N);

for(i=1;i<=N;i++)

{

s=s+i\*i\*i;

}

printf("Sum=%d",s);

getch();

}

6).

#include<stdio.h>

#include<conio.h>

int main()

{

int N,f=1;

printf("Enter a number:");

scanf("%d",&N);

if(N>=0)

{

for(;N>0;N--)

f=f\*N;

printf("Factorial:%d",f);

}

else

printf("Invalid number");

getch();

}

7).

#include<stdio.h>

#include<conio.h>

int main()

{

int x,count=0;

printf("Enter a number:");

scanf("%d",&x);

while(x)

{

x=x/10;

count++;

}

printf("Total digits:%d",count);

getch();

}

8).

#include<stdio.h>

#include<conio.h>

int main()

{

int x,i;

printf("Enter a natural number:");

scanf("%d",&x);

for(i=2;i<=x-1;i++)

if(x%i==0)

break;

if(i==x)

printf("Prime number");

else

printf("Non prime number");

getch();

}

9).

#include<stdio.h>

#include<conio.h>

int main()

{

int x,y,L;

printf("Enter two numbers:");

scanf("%d %d",&x,&y);

for(L=x>y?x:y;L<=x\*y;L++)

if(L%x==0 && L%y==0)

{

printf("LCM of two numbers:%d",L);

break;

}

getch();

}

10).

#include<stdio.h>

#include<conio.h>

int main()

{

int x,reverse=0,remainder;

printf("Enter a number:");

scanf("%d",&x);

while(x!=0)

{

remainder=x%10;

reverse=reverse\*10 + remainder;

x=x/10;

}

printf("Reverse number:%d",reverse);

getch();

}